

FIGURE 1

CGGCTGTGTGGCAGTCTTCATGGGTTCCGACGAGGAGGTCTCTGTGGCTGCGGCGGCTGCTAACTGCGCCACCTGCTGCAGCCTGTCCCGCGGCTCTGAAGCGCGCGCTCGAAGC 120

M P P P R T G R G L L W L G L V L S S V C V A L G S E T Q A N S T I D A L W V 39

CGAAATGCCGCCACCCCGGACCGCCGAGGCCCTTCTCTGGCTGGGTCTGGTCTGAGCTCCGTCTGGTGGCCCTCGGATCCGAAACGAGGCCAACTCGACCACAGATGCTCTGAACGT 240

L L L I V D D L R P S L G G Y G D K L V R S P M I D Q L A S H S L L F Q M A F A 79

TCCTCTCATCTGCTGGATGACCTGCGCCCCCTCCCTGGGCTGTTATGGGGATAAGCTGGTGAGGTCCCAAATATYGACCAACTGGCATCCACAGCCTCCTCTCCAGAAATGCCCTTTC 360

Q Q A V C A P S R V S F L T G R R P D T T R L Y D F M S Y W R V H A G N F S T I 119

GCAGCAAGCAGTGTGCGCCCCGAGCCGCTTCTCTCTCAGTGGCAGGAGACCTGACACCACCCGCTGTACGACTTCAACTCTACTGGAGGGTGCACGGTGGAACTTCTCCACCAT 480

P Q Y F K E N G Y V T M S V G K V F H P G I S S N H T D D S P Y S W S F P P Y K 159

CCCCAGTACTTCAAGGAGAAATGGCTATGTGACCATGTGGTGGGAAAAGTCTTTCACCTGGGATATCTTCTAACCATACCGATGATCTCCGTATAGCTGGTCTTTTCCACCTTATCA 600

P S S E K Y E N Y K T C R G P D G E L H A N L L C P V D V L D V P E G T L P D K 199

TCCTTCTCTGAGAAGTATGAAAACACTAAGACATGTGAGGGCCAGATGGAGAACTCCATGCCAACCTGCTTTCCTCTGGATGTGCTGGATGTTCGCGAGGGCACCTTGCCTGACAA 720

Q S T E Q A I O L L E K M K T S A S P F F L A V G Y H K P H I P F R Y P K E F Q 239

ACAGAGCACTGAGCAAGCCATACAGTTGTTGGAAAAGATGAAAACGTGAGCCAGTCCCTTCTCTGGCCGTTGGGTATCATAAGCCACACATCCCTTCAGATACCCCAAGGAATTTCA 840

K L Y P L E W I T L A P D P E V P D G L P P V A Y N P U M D I R O R E D V Q A L 279

GAAGTGTATCCCTGGAGAACATCACCTGGCCCCGATCCGAGGTCCCTGATGGCTACCCCTGTGGCTACACCCCTGGATGGACATCAGGCAACGGGAAGACGTCCAAGCCCT 960

N I S V P Y G P I P V O F Q R K I R Q S Y F A S V S Y L D T Q V G R L L S A L O 319

AAACATCAGTGTCCGTATGGTCCAATTCCTGTGGACTTTCAGCGGAAAATCCGCCAGAGCTACTTTCCTCTGTGTATATTGGATACACAGGTGCGCCGCTCTGTAGTCTTGGCA 1080

D L Q L A N S T I I A F T S D H G W A L G E H G E W A K Y S N F D V A T H V P L 359

CGATCTCAGCTGGCCAAACAGCACCATCATTTGCAATTTACCTCGGATCATGGTGGGCTCTAGGTGAACATGGAGAAATGGGCCAAATACAGCAATTTTGATGTTGCTACCCATGTTCCCT 1200

I F Y V P G R T A S L P E A G E K L F P Y L D P F D S A S O L M E P G R O S M D 399

GATATCTATGTTCTGGAAAGGACGGCTTCACTTCCGAGGCGAGGGAGAAAGCTTTTCCCTTACCTCGACCCCTTTGATTCGCGCTCACAGTTGATGGAGCCAGGCAATCCATGGA 1320

L V E L V S L F P T L A G L A G L O V P P R C P V P S F H V E L C R E G K M L L 439

CCCTGTGGAACTTGTGTCTTTTCCACGCTGGCTGGACTTGCAGGACTGCAGGTTCACCTCGCTGCCCGTTCCTTCATTTACGTTGAGCTGTGCAGAGAAAGCAAGAACCTTCA 1440

K H F R F R D L E E D P Y L P G W P R E L I A Y S O Y P R P S D I P Q W H S D K 479

GAAGCATTTTCGATTCGCTGACTTGAAGAGGATCCGTACCTCCCTGTAATCCCGTGAACCTGATTGCTATAGCCAGTATCCCGGCTTCAGACATCCCTCAGTGGAAATTCGACAA 1560

P S L K D I K I N G Y S I R T I D Y R Y T V W V G F N P D E F L A N F S D I H A S 519

GCCGAGTTTAAAGATATAAGATCATGGCTATTTCATACGCCACATAGACTATAGGTATAGTGTGGTGGCTTCAATCTGTGAATTTCTAGCTAACTTTTCTGACATCCATGC 1680

G E L Y F V D S D P L O D H M M Y N D S O G G D L F O L L M P 550

AGGGGAAGTATTTTGTGGATTCTGACCCATTCAGGATCACAAATATGTATAATGATCCCAAGGTGGAGATCTTTTCCAGTTGTTGATGCCTTGAGTTTTCGCAACCATGGATGGCAA 1800

ATGTGATGTGCTCCCTTCCAGCTGGTGAGAGGAGGAGTACAGCTGGTGGTGTGATTACCCATAATATGGAAAGCAGCTGAGGGCTAGTTAAATCCAAACATGCATCAACAATTTGG 1920

CCTGAGAAATGTAAACAGCCAAACCTTTTCGTTTAGTCTTTATTTAAATTTATAATTTGGTAATTTGGACAGTTTCTTTTAAATTTCCCTCTTTTAAACAGTTACCGCTTATTTACGT 2040

AATAAATACAAAGCAAACTCAAGTTATGTATACCTTTGGATACGAAGACCATACATAAATACCAACATAACATATACACAAAGAACTTTCATTATTTTGTGGAATTTAGTGC 2160

ATTTCAAAAGTAATCATATATCAAACTAGGCCACCACTAAGTTCCCTGATTATTTTGTATATAATTTAAATATATCTTATGAGCCCTATATTTCAAAATATTATGTTAACATGTAA 2280

TCATGTTTCTTTTCC 2297

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FIGURE 2

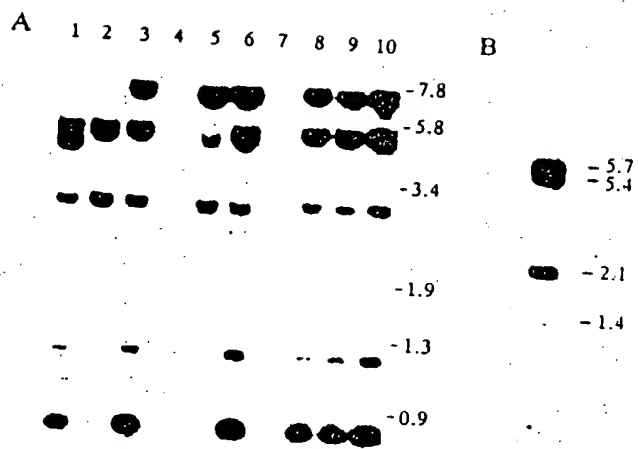


FIGURE 3

2 HPPPRTCRGLLLGLVLSSVCVALGSETQANST
6
A MGAPRSLLALAAAGLAVA
B MGPRGAASLPRGPGPRRLLLPVVLPILLLLAPPGSGA
C MFLRKKIIFLLFFLWEAES
U HKSAPFLFLGLGLVTAQTQDPALLDILLRENPDLLSLLQSNHR

2 TDALNVLLIIVDLR - PSLGCGYDKLVRS PNI DQASHSLLFQNAFAQAVATSRUSFITOR
6 TRRPNVVLLLTDD - EVLGGHTPLKTKALIGEM - GHTFSSAYVPSALCPSPASILLTOR
A RPPNIVLIFADLLGCGYDLCYGHPSSTPNLDQLAAGGLRFTDFYVPVSLIPSRALLTOR
B GASRPPHVLFLADLLGNDVG - FIGSRIRTPHDLAAGGVLLDNYTQ - PLIPSRSQLLITOR
C HAASRPNIILVHADLLGCGPGCYGNKTI RTPNIDRLASGGVKTQHLAASPLIPSRAPHTOR
U APLVKPNVLLVADLLGSGDLTSYCHPTQEA GFIDKMAEGLRFTNGYGVDAVDESSAINTOR

2 RPDITRLYD - FN - SYVRVHAGNFSTIPQYFXEN - GYTHSVGV - FHPCISSNHTDDSP - YSWSPFPYHPS - SEKYENTKTCRCPDGE - LIA
6 YPHNHUVN - NTLEGNCSSKSWQIQEPNTFPAILRSHGYYTFFACK - YLNEYCAPDAGGLEHVPL - GWSYVYALEKNS - KYNYTSLINGKARK - H
A LPVRMHY - GVLV - PSSRGGLPLEEVTVAEVLAR - GYTHSVGV - WHLG - PEGAFLLPHQGFHIFLGIPYSH - DQGPCQNLICFPATP - C
B YQIRTLQH - QIIW - PCQPSVPLDEKLLPQLKEA - GYTHSVGV - WHLG - RKEC - LPTRRGFDYFGYLLGS - EDYYSHERCTLIDAL - N
C YPVRSGMASVSRGTGVL - FTASSGGLPTDEITFAKLLKQ - GYTHSVGV - WHLG - WHLGCHSCHSKTDFCIUPLIHC - FNYFYGISLTNLRDCKPCGCVFTTGKRLVFLPLQIVGVTLTIA
U LPVRICTFG - ETRVFL - PWTKTGLPKSELTIAEAKEA - GYTHSVGV - WHLG - WHLGCHSCHSKTDFCIUPLIHC - FNYFYGISLTNLRDCKPCGCVFTTGKRLVFLPLQIVGVTLTIA

2 NLLCPVDVLDVPEGLTPDKQSTEQAIQLLEKMTASAPFFLAGVYHKKPHIPFRYPKEFKLY - PLENITLAPDPEVDPGLPPVAINPMDIRQR - EDVQALNISVPYGPPIVDF
6 GENYSVDYLTDLA - NVSLDF - LDYKSNDEFFHNIATPAPHSPTAAAPQYKAFQNVFAPRMKNFNIH - GTNKHVLI - ROAKTPH
A DGGCQGLVPIPL - LANSVEAQQPPULPGLARYMAFAIDMADAQRQDRPFFLYASHIITHYPO
B VTRC - ALD - FRDGEVATGYKMYSTNI FTKRAIALITN - HPPEKPLFLYALQSVHEPL
C ALNC - LGLLVPLG - VFFSLLFLAALITLFLQF - LUYFRPLNCF - HMYNVEIIQQPHSYDNLQRLTVEAAQFIQ - RHTETPFLVLVSYLHVITAL
U SQRC - YL - YVHATLVSPYQHKGLTQLFTDDALGFIED - HWDPPFLYVAFJHHTSL

2 - QRKIRQSYFASVSYLDTQ - CRLLSALDDQLANSTIIAFTSP - CHALGHEGEVAKYSHFDVATIVPLIFVYVPGRTASLHAGEKLFPPYLDPFDSASQLHEPCRQSH
6 TN - SSIQFLDNAFKRW - QTLSSVDDLVEKLVKRLFTGELMNIIFYTSDNMITG - QFSL - PIDKRLVFDIKV - PLLVRGPGIK - PNQTSK
A - FSCQSFAERSGRCFGFSDHEDAACTLMTAIGDLGLEELVIFTAPCPETHRMS - RCGCSGLL - RCGKGTITGCVRE - PALAFVPGHIAPCVT - H
B QVPEEYLKPYDFIQDKNRUYAGHVSMDAACHVTAALKSSGLVNNVFIFFSTHICQTL - AGGHNWPL - RGRKVSLLGCVRG - VGFVASPLLKQKCVKNR
C - FSSKDFACKSQHGVYGDVAEENDUS - QIILHLLDELRLANDLIYFTSDCHVEEVSSKGEI - HCGSNGIY - KGGKANNHGGIRV - PGLRUPRVIQAGQKID
U - FSSDDFSCTSRRCRYGDNLLHMDAL - KIVDKLENNISENIIFFISILPHREYCE - ECGDASIF - RCGKSHSUGGIRI - PYIVVPGTISPCIS - N

2 DLVELVSLFFLAGLAGLQVPPRCVPVPSHVELCRECKNLLKHFRFRDLEEDPYLPQPRELIAYSQYPRPSDIQVHSDKPSLKDKIKHGYSTRTIDYRYTVVVG
6 HLVANIDLGPILLDIACYDLNKT - QMDGKSL - LPILRGASHLTVRSVVLVEYQGEGRNVTDPCTPSLSPGVSQCPCDCEADYNNYACVTRTHSALV - NLOQC
A ELASSLDLPLAALAGAPLPHV - TLDGFDL - RPPAACHIRQEPSAVSLLLPVLPRRCPVGFCCAD - WKVQSSLHIGPSAHSDTTAD - PAC
B ELIHISDVLPILVKLARGHTNCTKPLDGFV - VKTISEGSPSP - RIELLJUNIDPNFVDSPPCRHSHAPAKDDSSLPEYSAFNTSVHAAIRHGWKLLTGYPGCGY
C EPTSHNDIFPILVAKLAGAPLPEDRIIDGRDL - MPLLEKKSQRSDEHFLHYCHAYLNAVVRVHPQNSTSIWKAFFFTPNFNPVGSNGCFAT - HVC
U EIVTSHDITADLADLGGTTLTDRIDYCKSI - KDVLLGASAP - HSSFFYYCKDHLMAVRVCKYKAIFRTQVRVSQDEYGLECAGG - FPL - EDY

- FNPDE - FLANFSDIHAGE - LYFVDSOTLQDHMY - NDSQGGDLQLLMP
6 - EFDDQEVFVUYMTADPQITNI - AKTIDPELLCKMYRLHMLQSCSGPTCRTPGVFDPCYR - FDPRLMF - SNRGSVTRTRFSKHLL
A - HASSSLTAHEPP - L - LYDLSKDPENYNLLCGVAGATPEVLQALKQLLQAQDAAVTFGPSQVARGE - DPALQICCHPGCTPRACCHCPDPIA
B VFPFPPSYVSEIIPSDPPTKTLVLFIDIDPFEERHDL - SREYPHIVTKLLSRQFYNIKISVPV - YFPAQ - DPR - CD - PKATGVVGPW
C - F - CFGSYVTHIDPP - L - LFDISKDPRERNPL - TPASEPRFYEILKVMQEAADRIQTLPVDPQFSVHFLUKPWLQLCCP - STGLSCQCDREKQDKRLSR
U - FDCND - CEGDCVTEHDP - L - LFDLHMD - EAYPL - EACGHEDVFLTKSVTEEIHKAAALVKCTPLDSDHSIVPCCNFANGGICMYVIEPCNPECYQDQVATAARHNP

66760 0004060

FIGURE 4

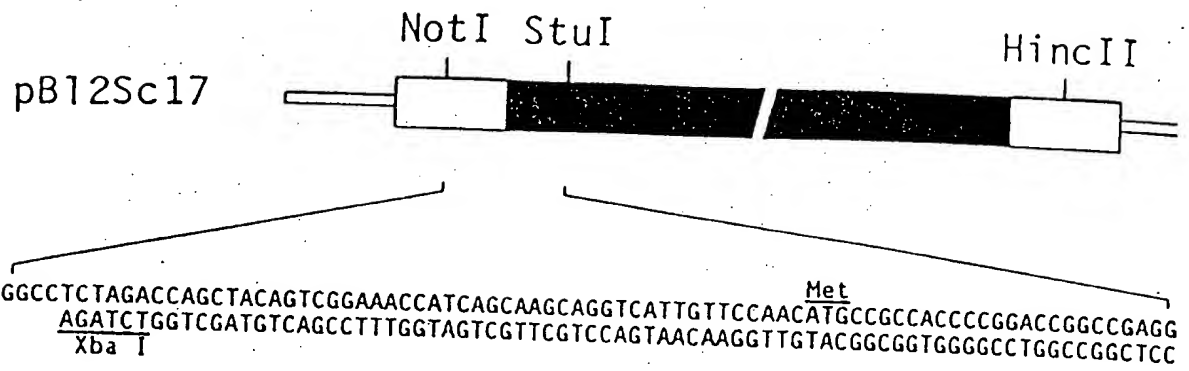


FIGURE 5

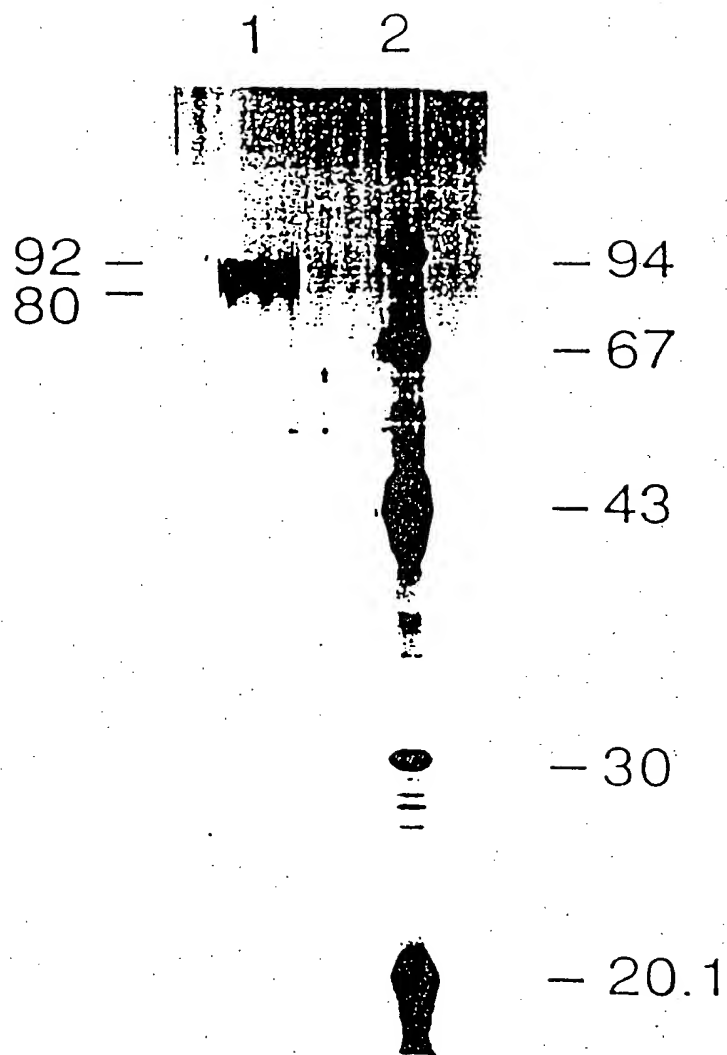


FIGURE 6

